

INFORMATION DISCLOSURE CITATION

Atty. Docket No. 02481.1743	Application No. 09/835,371
Applicant E. Uhlmann et al.	
Filing Date April 17, 2001	Group Art Unit: 1645

U.S. PATENT DOCUMENTS							
Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate	
JS	5,874,553	02/1999	Peyman et al.	—	—		

FOREIGN PATENT DOCUMENTS							
	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No	
JS	WO 99/37670	07/1999	PCT	—	—		
	WO 99/33867	07/1999	PCT	—	—	Yes (Abstract only)	
	WO 96/11205	04/1996	PCT	—	—		
	DE 196 40 974	04/1998	Germany	—	—	Yes (CA 2,217,377)	
	DE 195 08 923	09/1996	Germany	—	—	Yes (US 5,874,553)	
	EP 0 672 677	09/1995	EP	—	—	Yes (CA 2,144,475)	
	CA 2,217,377	04/1998	Canada	—	—		
JS	CA 2,144,475	09/1995	Canada	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	

Examiner <i>Jeffrey</i>	Date Considered <i>3/01/05</i>
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449 Patent and Trademark Office - U.S. Department of Commerce	

INFORMATION DISCLOSURE CITATION

Atty. Docket No.: 02481.1743				Application No.: 09/835,371			
Applicant: E. UHLMANN et al.							
Filing Date: April 17, 2001				Group Art Unit: Not Yet Assigned			
U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub Class	Translation Yes or No
JS		WO 92/20702	11/1992	PCT	—	—	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
JS		Nielsen et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide", <i>Science</i> 254:1497-1500, December 6, 1991.					
		Egholm et al., "PNA Hybridizes to Complementary Oligonucleotides Obeying the Watson-Crick Hydrogen-Bonding Rules", <i>Nature</i> 365(6446):566-568, October 7, 1993.					
		Nielsen et al., "Peptide Nucleic Acid (PNA). A DNA Mimic with a Peptide Backbone", <i>Bioconjugate Chem.</i> 5(1):3-7, January/February 1994.					
		Uhlmann et al., "PNA: Synthetic Polyamide Nucleic Acids with Unusual Binding Properties", <i>Angew. Chem. Int. Ed.</i> 37(20):2796-2823, November 2, 1998.					
		Greiner et al., "Influence of the Type of Junction in DNA-3'-Peptide Nucleic Acid (PNA) Chimeras on Their Binding Affinity to DNA and RNA", <i>Helvetica Chimica Acta</i> 82(12):2151-2159, 1999.					
		Nielsen et al., "Peptide Nucleic Acids - Protocols and Applications", <i>Horizon Scientific Press</i> , pps. 2-3, 1999.					
		Uhlmann et al., "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chemical Reviews</i> 90(4):543-584, June 1990.					
JS		Larsen et al., "Antisense Properties of Peptide Nucleic Acid", <i>Biochim. Biophys. Acta</i> 1489(1):159-166, December 10, 1999.					
Examiner <i>Jeffrey Lewis</i>				Date Considered <i>3/1/05</i>			
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

INFORMATION DISCLOSURE CITATION

Atty. Docket No.: 02481.1743				Application No.: 09/835,371			
Applicant: E. UHLMANN et al.							
Filing Date: April 17, 2001				Group Art Unit: Not Yet Assigned			
U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub Class	Translation Yes or No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
JS		Praseuth et al., "Triple Helix Formation and the Antigene Strategy for Sequence-Specific Control of Gene Expression", <i>Biochem. Biophys. Acta</i> 1489(1):181-206, December 10, 1999.					
		Mischiati et al., "Interaction of the Human NF- κ B p52 Transcription Factor with DNA-PNA Hybrids Mimicking the NF- κ B Binding Sites of the Human Immunodeficiency Virus Type 1 Promoter", <i>J. Biol. Chem.</i> 274(46):33114-33122, November 12, 1999.					
		Cole-Strauss et al., "Correction of the Mutation Responsible for Sickle Cell Anemia by an RNA-DNA Oligonucleotide", <i>Science</i> 273:1386-1389, September 6, 1996.					
		Ørum et al., "Labeling of PNA", <i>Peptide Nucleic Acids: Protocols and Applications</i> , pps. 81-86, 1999.					
		Lohse et al., "Fluorescein-Conjugated Lysine Monomers for Solid Phase Synthesis of Fluorescent Peptides and PNA Oligomers", <i>Bioconjugate Chem.</i> 8(4):503-509, July/August 1997.					
		Wittung et al., "Phospholipid Membrane Permeability of Peptide Nucleic Acid", <i>FEBS Lett.</i> 365(1):27-29, May 22, 1995.					
		Koch et al., "PNA-Peptide Chimerae", <i>Tetrahedron Lett.</i> 36(38):6933-6936, September 18, 1995.					
JS		Egholm et al., "Peptide Nucleic Acids (PNA): Oligonucleotide Analogues with an Achiral Peptide Backbone", <i>J. Am. Chem. Soc.</i> 114(5):1895-1897, February 26, 1992.					
Examiner				Date Considered			
Jeffery Bunn				3/1/05			
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

INFORMATION DISCLOSURE CITATION

Atty. Docket No.: 02481.1743				Application No.: 09/835,371				
Applicant: E. UHLMANN et al.								
Filing Date: April 17, 2001				Group Art Unit: Not Yet Assigned				
U.S. PATENT DOCUMENTS								
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate	
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Sub Class	Translation Yes or No	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
JS		Nielsen et al., Appendix, "Peptide Nucleic Acids, Protocols and Applications", <i>Horizon Scientific Press</i> , pps. 253-255, 1999.						
		Falkiewicz, B., "Peptide Nucleic Acids and Their Structural Modifications", <i>Acta Biochim. Polonica</i> 46(3):509-529, 1999.						
		Sosnowski et al., "Rapid Determination of Single Base Mismatch Mutations in DNA Hybrids by Direct Electric Field Control", <i>Proc. Natl. Acad. Sci. USA</i> 94(4):1119-1123, February 1997.						
		Hung et al., "Comparison of Fluorescence Energy Transfer Primers with Different Donor-Acceptor Dye Combinations", <i>Analytical Biochemistry</i> 255(1):32-38, January 1, 1998.						
		Tarrason et al., "Intracellular Distribution of Digoxigenin-Labeled Phosphorothioate Oligonucleotides", <i>Methods in Enzymology</i> 313:257-268, 1999.						
		Matthes et al., "Telomerase Protein Rather than its RNA is the Target of Phosphorothioate-Modified Oligonucleotides", <i>Nucleic Acids Research</i> 27(4):1152-1158, February 15, 1999.						
		Hayashi et al., "In Vivo Transfer of Gene and Oligodeoxynucleotides into Skin of Fetal Rats by Incubation in Amniotic Fluid", <i>Gene Therapy</i> 3(10):878-885, October 1996.						
JS		Just et al., "Flow Cytometric Detection of EBV (EBER snRNA) Using Peptide Nucleic Acid Probes", <i>Journal of Virological Methods</i> 73(2):163-174, August 1998.						
Examiner		J. J. L. L.			Date Considered			3/1/95
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>								

INFORMATION DISCLOSURE CITATION

Atty. Docket No.: 02481.1743				Application No.: 09/835,371			
Applicant: E. UHLMANN et al.							
Filing Date: April 17, 2001				Group Art Unit: Not Yet Assigned			
U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub Class	Translation Yes or No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
JS		Strother et al., "Synthesis and Characterization of DNA-Modified Silicon (111) Surfaces", <i>J. Am. Chem.</i> 122(6):1205-1209, February 16, 2000.					
		Pirrung, M., "Spatially Addressable Combinatorial Libraries", <i>Chem. Rev.</i> 97(2):473-488, March/April 1997.					
		Wang et al., "Peptide Nucleic Acid Probes for Sequence-Specific DNA Biosensors", <i>J. Am. Chem. Soc.</i> 118(33):7667-7670, August 21, 1996.					
		Will et al., "The Synthesis of Polyamide Nucleic Acids Using a Novel Monomethoxytrityl Protecting-Group Strategy", <i>Tetrahedron</i> 51(44):12069-12082, October 30, 1995.					
		Breipohl et al., "Novel Synthetic Routes to PNA Monomers and PNA-DNA Linker Molecules", <i>Tetrahedron</i> 53(43):14671-14686, October 27, 1997.					
		Sonveaux, E., "The Organic Chemistry Underlying DNA Synthesis", <i>Bioorganic Chemistry</i> 14(3):274-325, September 1986.					
		Beaucage et al., "The Functionalization of Oligonucleotides Via Phosphoramidite Derivatives", <i>Tetrahedron</i> 49(10):1925-1963, March 5, 1993.					
JS		Ravin, L., "Preformulation", <i>Remington's Pharmaceutical Sciences</i> , Mack Publishing Company, Easton, PA, pps. 1409-1423, 1985.					
Examiner Jeffrey Bu				Date Considered 3/1/05			
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

INFORMATION DISCLOSURE CITATION

Atty. Docket No.: 02481.1743				Application No.: 09/835,371			
Applicant: E. UHLMANN et al.							
Filing Date: April 17, 2001				Group Art Unit: Not Yet Assigned			
U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub Class	Translation Yes or No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
JS		Li et al., "Molecular Beacons: A Novel Approach to Detect Protein-DNA Interactions", <i>Angew. Chem. Int. Ed.</i> 39(6):1049-1052, March 17, 2000.					
		Sokol et al., "Real Time Detection of DNA-RNA Hybridization in Living Cells", <i>Proc. Natl. Acad. Sci. USA</i> 95(20):11538-11543, September 29, 1998.					
		Niemeyer et al., "DNA Microarrays", <i>Angew. Chem. Int. Ed.</i> 38(19):2865-2869, 1999.					
JS		Weiner et al., "Liposomes as a Drug Delivery System", <i>Drug Develop. and Ind. Pharm.</i> 15(10):1523-1554, 1989.					
Examiner <i>Jeffrey Burr</i>				Date Considered <i>3/1/05</i>			
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							